

## POLYSILOXANE FOR USE IN ELECTROCHEMICAL CELLS

### ABSTRACT

An electrolyte for use in an electrochemical device is disclosed. The device includes an electrolyte with a polysiloxane. The backbone of the polysiloxane includes one or more terminal silicons linked to a side chain that includes a poly(alkylene oxide) moiety or a carbonate moiety. The polysiloxanes can be generated using a ring-opening polymerization to form a precursor polysiloxane having a backbone with terminal silicons that linked to a hydrogen.